

As a below-named inventor, we hereby declare that:

CONVERTER". The specification of this subject matter:

was filed on August 13, 2001;

was assigned serial No. 09/929,652 which was amended on .

is attached hereto.

design patent application) prior to this application.

application in accordance with 37 C.F.R. §1.56(a).

XX

XX

My correct residence, post office address and citizenship are stated below next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified patent application, including the claims, as amended by any amendment(s) referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, and that the invention has not been patented or made the subject of an inventor's cartificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a

I believe myself to be the original, first and sole inventor (if only one name is listed below) or an original and first joint inventor (if more than one name is listed below) of the subject matter which is disclosed and claimed and for which a patent is sought on the invention entitled:

"METHOD AND APPARATUS FOR TRIMMING HIGH-RESOLUTION DIGITAL-TO-ANALOG

for patent or	r inventor's certificate	riority benefits under 35 U.S.C. §119 e listed below and have also identifie aving a filing date before that of the a	ed below an	y foreigr	application for
Prior Foreig	n Application(s)				Priority Claimed
NO	NE				
Number	Country	Month/Day/Year Filed	Yes	No	
Number	Country	Month/Day/Year Filed	Yes	No	
Number	Country	Month/Day/Year Filed	Yes	No	

I acknowledge the duty to disclose information which is material to the examination of this



NONE		
Application Number	Filing Date	
Application Number	Filing Date	

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in these prior United States application(s) in the manner provided by 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. §1.58(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

NONE		
Application No.	Filing Date	Status (Issued, Pending, Abandoned)
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Application No.	Filing Date	Status (Issued, Pending, Abandoned)

I hereby appoint David B. Ritchie, Registration No. 31,562; Marc S. Hanish, Registration No. 42,626; John P. Schaub, Registration No. 42,125; Gerhard W. Thielman, Registration No. 43,186; Adrienne Yeung, Registration No. 40,000; Steven J. Robbins, Registration No. 40,299; William Samuel Niece, Registration No. 1947,824; and John Klaas Uilkema, Registration No. 20,282 as attorneys of record with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

Please send all correspondence and direct all telephone calls to:

David B. Ritchie Thelen Reid & Priest LLP P.O. Box 640640 San Jose, CA 95164-0640 Telephone: (408) 292-5800 Facsimile: (408) 287-8040

I, the undersigned, declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful faise statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful faise statements may jeopardize the validity of the application or any patent issuing therefrom.



FULL NAME OF	FIRST Name	MIDDLE Initial(s)	LAST Name	
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FULL NAME OF INVENTOR 3	FIRST Name	MIDDLE Initial(s)	. LAST Name	
	Todd	<u>E </u>	Humes	
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FULL NAME OF	FIRST Name	MIDDLE Initial(s)	LAST Name	
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POST OFFICE ADDRESS	Number and Street	City	State or Country	Zip Code
	17001 15th Avenue NW	Shoreline	Washington	98177



				Docket	No. IMPJ-0	003
FULL NAME OF	FIRST Name	MIDDLE	Initial(s)	LAST N	ame	
	Terry	D.		Hass		
RESIDENCE AN CITIZENSHIP			State or Foreign Country		Country of	Citizenship
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	Seattle		Washington		USA	
POST OFFICE ADDRESS	Number and Stree	t	City	State or	Country	Zip Code
	4517 49 th Avenue	NE	Seattle	Washin	gton	98105
made upon inform knowledge that w Section 1001 of 1	nation and belief ar rillful false statemen	e believed to be ts and the like s d States Code, a	erein of my own knowledge true; and further that these o made are punishable by nd that such willful false st	statemer fine or im	nts were mad prisonment,	de with the or both, under
John D. Hyde	.14	18/2001	Miguel E. Figue			Date
Semijo. Hyda	•	Jale	Miguel L. Figue	.oa		Julio
Todd E. Humes		Date	Christopher J. D	iorio		Date

Terry D. Hass

Date



Duty t disclose informati n material t patentability

- (a) A patent by its very nature is affected with a public interest. The public interest is best served. and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1,97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
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- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
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 - (ii) Asserting an argument of patentability.

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- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or

prosecution of the application and who is associated with the inventor, with the assignee or with anyone to who

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.



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CONVERTER". The specification of this subject matter:

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Prior Foreign Application(s)

Country

Country

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Number

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applic		owledge the duty to disclose information which is material to the examination of this ccordance with 37 C.F.R. §1.56(a).
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Month/Day/Year Filed

Month/Day/Year Filed

Month/Day/Year Filed

res .	No	
res	No	
		,

Yes No

Priority Claimed



NONE		
Application Number	Filing Date	
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FULL NAME OF	FIRST Name	MIDDLE Initial(s)	LAST Name	
INVENTOR 1	John	D.	Hvde	
RESIDENCE AN CITIZENSHIP		State or Foreign Country	Country of Cit	izenship
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	37845 Soap Creek Road	Corvalis	Oregon	97330
FULL NAME OF INVENTOR 2	FIRST Name	MIDDLE Initial(s)	LAST Name	
	Miguel	E	Figueroa	
RESIDENCE AN CITIZENSHIP	D City	State or Foreign Country	Country of Cit	izenship
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FULL NAME OF INVENTOR 3	FIRST Name	MIDDLE Initial(s)	LAST Name	
	Todd	E	Humes	
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FULL NAME OF	FIRST Name	MIDDLE Initial(s)	LAST Name	
INVENTOR 4		· · · · · · · · · · · · · · · · · · ·		
DECIDENCE AN	Christopher	J. State or Foreign Country	Diorio Country of Ci	tizanahin
RESIDENCE AN CITIZENSHIP	D City	State or Foreign Country	Country of Cr	uzensnip
	Shoreline	Washington	USA	
POST OFFICE ADDRESS	Number and Street	City	State or Country	Zip Code
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			U	DOKET NO. IMPJ-	JU3
FULL NAME OF	FIRST Name	MIDDLE Initial(s)	U	AST Name	
INVENTOR 5	Terry	D.	ш	ass	
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	9 Greystoke Court	Ballwin	Missouri	63	3021
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	Chad	_ A.	Li	ndhorst	
RESIDENCE AN CITIZENSHIP	D City	State or F	oreign Country	Country of	Citizenship
	Seattle	Washingt		USA	
POST OFFICE ADDRESS	Number and Street	City	S	ate or Country	Zip Code
	4517 49 th Avenue NE	Seattle	w	ashington	98105
made upon inforr knowledge that w Section 1001 of 1	declare that all statement nation and belief are belie illiful false statements and "itle 18 of the United State or any patent issuing the	eved to be true; and fi I the like so made are es Code, and that suc	urther that these sta e punishable by fine	tements were ma or imprisonment,	de with the or both, under
John D. Hyde	Date		Wguel E Figueroa		Date
Fodd E. Humes	-Date		Christopher J. Diori)	Date

Terry D. Hass

Date

37 C.F.R. §1.56

Duty t disclose Inf rmation material to patentability

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District Control Assets Control

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Prior Foreig	n Application(s)				Priority Claimed
NO	NE				
Number	Country	Month/Day/Year Filed	Yes	No	
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NONE		
Application Number	Filing Date	
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FULL NAME OF	FIDST Name	MIDDLE Initial(s)	LAST Name	
INVENTOR 2	rik3i Name	` '		
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	817 NW 200th Street	Shoreline	Washington	98177
5.11. NAME 05	SIDOT Name	MIDDLE Initial(s)	LAST Name	
FULL NAME OF INVENTOR 4	FIRST Name	MIDDLE Initial(s)		
	Christopher	J	Diorio	
RESIDENCE AN CITIZENSHIP	D City	State or Foreign Country	Country of Ci	tizenship
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	4517 49 th Avenue NE	Seattle	Wast	nington	98105
I further made upon Inforr knowledge that w	declare that all statemen nation and belief are beli- tillful false statements and Title 18 of the United State or any patent issuing the	ts made herein of my ow eved to be true; and furth d the like so made are pu es Code, and that such w	n knowledge are tru er that these staten inishable by fine or	ue and that all s nents were mad imprisonment, d	tatements de with the or both, under
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 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or

prosecution of the application and who is associated with the inventor, with the assignee or with anyone to who

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.



As a below-named inventor, we hereby declare that:

CONVERTER". The specification of this subject matter:

was filed on August 13, 2001;

was assigned serial No. 09/929.652 which was amended on . _____

is attached hereto.

design patent application) prior to this application.

XX

XX

My correct residence, post office address and citizenship are stated below next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified patent application, including the claims, as amended by any amendment(s) referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, and that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a

I believe myself to be the original, first and sole inventor (if only one name is listed below) or an original and first joint inventor (if more than one name is listed below) of the subject matter which is disclosed and claimed and for which a patent is sought on the invention entitled:

"METHOD AND APPARATUS FOR TRIMMING HIGH-RESOLUTION DIGITAL-TO-ANALOG

	knowledge the duty in accordance with 3	to disclose information which is mater 37 C.F.R. §1.56(a).	ial to the e	xamina	tion of this
for patent or	r inventor's certificat	riority benefits under 35 U.S.C. §119 to listed below and have also identified aving a filing date before that of the approximation of	below any	foreign	application for
Prior Foreig	n Application(s)				Priority Claimed
NO	NE				
Number	Country	Month/Day/Year Filed	Yes	No	
Number	Country	Month/Day/Year Filed	Yes	No	
Number	Country	Month/Day/Year Filed	Yes	No	



NONE		
Application Number	Filing Date	
Application Number	Filing Date	

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NONE		
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Please send all correspondence and direct all telephone calls to:

David B. Ritchie Thelen Reid & Priest LLP P.O. Box 640640 San Jose, CA 95164-0640 Telephone: (408) 292-5800 Facsimile: (408) 287-8040

I, the undersigned, declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that wilfful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such wilfful false statements may jeopardize the validity of the application or any patent issuing therefrom.



RESIDENCE AND CITIZENSHIP POST OFFICE ADDRESS FULL NAME OF INVENTOR 2 RESIDENCE AND CITIZENSHIP	Corvalis Number and Street 37845 Soap Creek Road FIRST Name Miguel	D. State or Foreign Country Oregon City Corvalis MIDDLE Initial(s) E. State or Foreign Country	Hyde Country of Cit USA State or Country Oregon LAST Name Figueroa	Zip Code
RESIDENCE AND CITIZENSHIP POST OFFICE ADDRESS FULL NAME OF INVENTOR 2 RESIDENCE AND CITIZENSHIP	City Corvalis Number and Street 37845 Soap Creek Road FIRST Name Miquel City	State or Foreign Country Oregon City Corvalis MIDDLE Initial(s) E.	Country of Cit USA State or Country Oregon LAST Name	Zip Code
POST OFFICE ADDRESS FULL NAME OF INVENTOR 2 RESIDENCE AND CITIZENSHIP	Number and Street 37845 Soap Creek Road FIRST Name Miguel City	City Corvalis MIDDLE Initial(s) E.	State or Country Oregon LAST Name	
FULL NAME OF INVENTOR 2 RESIDENCE AND CITIZENSHIP	37845 Soap Creek Road FIRST Name Miguel City	Corvalis MIDDLE Initial(s) E.	Oregon LAST Name	
FULL NAME OF INVENTOR 2 RESIDENCE AND CITIZENSHIP	FIRST Name Miquel City	MIDDLE Initial(s)	LAST Name	97330
RESIDENCE AND CITIZENSHIP	Miguel D City	E		
RESIDENCE AND CITIZENSHIP	D City		Figueroa	
CITIZENSHIP		State or Foreign Country		
	Seattle '		Country of Cit	zenship
		Washington	CHILE	
	Number and Street	City	State or Country	Zip Code
	4200 Mary Gates Drive, NE #T251	Seattle	Washington	98105
FULL NAME OF	FIRST Name	MIDDLE Initial(s)	LAST Name	
INVENTOR 3	Todd	E.	Humes	
RESIDENCE AND CITIZENSHIP		State or Foreign Country		izenship
	Shoreline	Washington	USA	
	Number and Street	City	State or Country	Zip Code
	817 NW 200 th Street	Shoreline	Washington	98177
FULL NAME OF	FIRST Name	MIDDLE Initial(s)	LAST Name	
	Christopher	J	Diorio	
RESIDENCE AND CITIZENSHIP	O City	State or Foreign Country	Country of Cit	izenship
	Shoreline	Washington	USA	
		City	State or Country	Zip Code
	Number and Street			

FULL NAME OF	FIRST Name	MIDDLE	E Initial(s)	LAST	lame	
	Terry	D.		Hass		
RESIDENCE AN CITIZENSHIP			State or Foreign Countr		Country of	Citizenship
	Ballwin		Missouri		USA	
POST OFFICE ADDRESS	Number and Street	City		or Country	Zip Co	ode
	9 Greystoke Court	Ballwin	Misso	ouri	63	021
FULL NAME OF INVENTOR 6		MIDDLE	E Initial(s)	LAST N		
RESIDENCE AN CITIZENSHIP	Chad D City	_А	State or Foreign Country		Country of	Citizenship
	Seattle		Washington		USA	
POST OFFICE ADDRESS	Number and Street		City	State o	Country	Zip Code
	4517 49 th Avenue NE		Seattle	Washir	gton	98105
made upon inform knowledge that was Section 1001 of 1	declare that all statemen mation and belief are beli- illful false statements and Fitle 18 of the United Stat or any patent issuing the	eved to be d the like so es Code, a	true; and further that the o made are punishable b	se stateme y fine or im	nts were mad prisonment, o	le with the or both, under
John D. Hyde	Date		Miguel E, Figu	eroa		Date
Todd E. Humes	Date		Christopher J.	Jan -	r. N.	Date Date

Terry D. Hass

Date

37 C.F.R. §1.56

Duty to disclose information material to patentability

- (a) A patent by its very nature is affected with a public interest. The public interest is best served. and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1,97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
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- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
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 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
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	knowledge the duty n accordance with 3	to disclose information which is mate 7 C.F.R. §1.56(a).	erial to the e	xamina	tion of this
for patent or	Inventor's certificate	riority benefits under 35 U.S.C. §119 e listed below and have also identifie aving a filing date before that of the a	d below any	foreign	application for
Prior Foreign	n Application(s)				Priority Claimed
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NONE		
Application Number	Filing Date	
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INVENTOR	John	D.	Hvde	
RESIDENCE AN CITIZENSHIP		State or Foreign Country	Country of Cit	izenship
	Corvalis	Oregon	USA	
POST OFFICE ADDRESS	Number and Street	City	State or Country	Zip Code
	37845 Soap Creek Road	Corvalis	Oregon	97330
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	Miguel	E	Figueroa	
RESIDENCE AN CITIZENSHIP	D City	State or Foreign Country	Country of Cit	izenship
	Seattle	Washington	CHILE	
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	4200 Mary Gates Drive, NE #T251	Seattle	Washington	98105
FULL NAME OF	FIRST Name	MIDDLE Initial(s)	LAST Name	
INVENTOR 3	Todd	_		
RESIDENCE AN CITIZENSHIP		E. State or Foreign Country	Humes Country of Cit	izenship
	Shoreline	Washington	USA	
POST OFFICE ADDRESS	Number and Street	City	State or Country	Zip Code
	817 NW 200 th Street	Shoreline	Washington	98177
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RESIDENCE AN CITIZENSHIP	D City	State or Foreign Country	Country of Cit	izenship
	Shoreline	Washington	USA	
POST OFFICE ADDRESS	Number and Street	City	State or Country	Zip Code
	17001 15th Avenue NW	Shoreline	Washington	98177

FULL NAME OF	FIRST Name	MIDDLE	Initial(s)	,	LAST Nar	ne	
INVENTOR 3	Terry	D.			Hass		
RESIDENCE ANI CITIZENSHIP		<u></u>	State or Foreign	Country		Country of C	itizenship
	Ballwin		Missouri		1	JSA	
POST OFFICE ADDRESS	Number and Street	City	Wildows	State or		Zip Co	de
	9 Greystoke Court	Ballwin		Missouri		630	21
FULL NAME OF INVENTOR 6	FIRST Name	MIDDLE	Initial(s)		LAST Nar	ne	
RESIDENCE ANI CITIZENSHIP		Λ	State or Foreign	Country		Country of C	itizenship
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John D. Hyde	Date		Miguel I	E. Figuero)a		Date
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Jerry D. Hess 11/6/01
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1

DECLARATION & POWER OF ATTORNEY

As a below-named inventor, we hereby declare that:

CONVERTER". The specification of this subject matter:

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I acknowledge the duty to disclose information which is material to the examination of this



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Application Number	Filing Date	
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	John	D.	Hvde	
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	Todd	E	Humes	
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INVENTOR 4		J.	Diorio	
RESIDENCE AN	Christopher D City	State or Foreign Country	Country of Citi	zenehin
CITIZENSHIP	D Gity	State of Foreign Country	Country of Cit	zonanip
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	17001 15th Avenue NW	Shoreline	Washington	98177

				Dooke	t No. IMPJ-0	103
FULL NAME OF INVENTOR 5	FIRST Name	MIDDLE	Initial(s)	LAST	lame	
	Terry	D.		Hass		
RESIDENCE AN CITIZENSHIP	D City		State or Foreign Count	ry	Country of	Citizenship
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	Chad	Α		Lindhor		
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	declare that all statements	s made he	rein of my own knowled	ne are true	and that all s	totomouto
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37 C.F.R. §1.56

Duty to disclose information material t patentability

- (a) A patent by its very nature is affected with a public interest. The public interest is best served. and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1,97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim: or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or

prosecution of the application and who is associated with the inventor, with the assignee or with anyone to who

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.